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## Computer Science Fundamentals

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## The Division of Extension University of Toronto

This course is designed to present the fundamental concepts of Computer Science to persons who have some experience in programming practice. In this new science there are a number of emerging theories that will be discussed in considerable detail during the lecture sessions. Exposure in depth to these theories should be of great value to those engaged in computer work.

The course will be concerned with man-machine communication and the motivation for programming languages.

A list of further topics includes:

Language classification by complexity
Language classification by function
Assemblers
Interpreters
Compilers
Symbol manipulating
Algebraic compilers
List processing
ALGOL

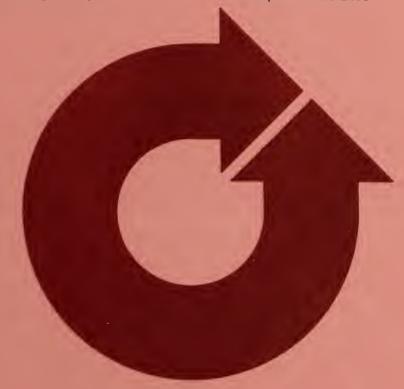
Data structures: lists, stacks, arrays, dynamic storage, garbage collection, formal approaches.

Compiler structure: formal languages, parsing methods, syntax directed compilers, translator writing systems. Prerequisites: Three years experience with computers and some university level mathematics, or approval of the instructor is required.

Mondays, commencing October 7, 7:30-9:30 p.m., Galbraith Building, St. George Campus. \$90.00 — 25 sessions

Requests for application forms may be directed to:

Business & Professional Courses, Division of Extension, University of Toronto, 84 Queen's Park, Toronto 5, Ontario. Telephone: 928-2400



Offered in co-operation with the Canadian Information Processing Society, Toronto Section

